



## INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)

ATTY. DOCKET NO.  
0290112

SERIAL NO.

APPLICANT

Peter J. Jessup et al.

FILING DATE

GROUP

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
<i>DM</i>	A	3 6 5 8 6 9 0	4/25/72	Graven			
	B	3 8 8 6 7 5 9	6/03/75	McNamee			
	C	3 9 0 3 1 9 4	9/02/75	Hutson, Jr., et al.			
	D	3 9 5 7 9 0 1	5/18/76	Chapman			
	E	4 0 2 2 5 8 9	5/10/77	Alquist et al.			
	F	4 1 1 8 4 2 5	10/02/78	Herbetman			
	G	4 2 2 0 1 2 0	9/02/80	Jackson, deceased, et al.			
	H	4 3 1 3 7 3 8	2/02/82	Parlman et al.			
	I	4 3 2 2 3 0 4	3/30/82	Parlman et al.			
	J	4 3 2 4 5 6 9	4/13/82	Klimczak			
	K	4 3 7 2 7 5 2	2/08/83	Lamy			

## FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	PUBLI- CATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation conforms, whether or not citation is in conformance with MPEP 808. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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<i>AM</i>	A	4 4 3 7 4 3 5	3/20/84	Graiff et al.			
	B	4 4 6 8 2 3 3	8/28/84	Bruderreck et al.			
	C	4 5 0 8 6 1 7	4/02/85	Montgomery			
	D	4 5 7 1 4 3 9	2/18/86	Keyworth			
	E	4 5 7 9 9 9 0	4/01/86	Keyworth			
	F	4 6 0 7 1 2 9	8/19/86	Lee			
	G	4 6 4 7 3 6 8	3/03/87	McGuinness et al.			
	H	4 8 1 8 2 5 0	4/04/89	Whitworth			
	I	4 8 5 1 6 0 1	7/25/89	Fukuda et al.			
	J	4 8 7 3 3 8 9	10/10/89	Avidan et al.			
	K	4 8 8 4 5 3 1	12/05/89	Degnan, Jr., et al.			

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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EXAMINER

DATE CONSIDERED

7-29-96

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PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
AM	A	4 8 9 9 0 1 4	2/06/90	Avidan et al.	1	1	
	B	4 9 5 5 3 3 2	9/11/90	Talbert			
	C	5 0 1 5 3 5 6	5/14/91	Talbert			
	D	5 0 4 1 2 0 8	8/20/91	Patridge et al.			
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FOREIGN PATENT DOCUMENTS

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EXAMINER

*Amup*

DATE CONSIDERED

7-29-96

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## U. S. PATENT DOCUMENTS

*Exam Initial			DOCUMENT NUMBER							DATE	NAME	CLASS	SUB CLASS	Filing Date
✓	AA	6	2	9	6	5	6	1		10/31/81	Burns			
	AB	4	2	9	9	6	6	1		10/20/81	Burns			
	AC	4	2	9	9	4	4	2		10/20/81	Burns			
	AD	6	6	1	1	6	6	1		3/23/82	Partman			
	AC	4	3	1	1	6	6	6		3/23/82	Burns			
	AC	4	3	3	9	2	4	9		7/13/82	Burns			
	AC	4	3	4	1	5	2	9		7/27/82	Burns			
	AH	6	6	1	8	2	3	1		3/29/83	Burns			
	AI	4	4	4	7	4	4	4		11/29/83	Burns et al.			
	AJ	4	4	4	4	5	6	7		4/24/84	Burns et al.			
✓	AK	6	6	5	5	5	6	5		5/1/84	Burns			

## FOREIGN PATENT DOCUMENTS

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

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Date Considered

\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

gh	R	"The Role of MTBE in Future Gasoline Production" by William J. Piel, <u>Energy Progress</u> (Vol. 8, No. 4), December, 1988, pp 201-204.
↓	S	"Are the Reductions in Vehicle Carbon Monoxide Exhaust Emissions Proportional to the Fuel Oxygen Content?" by J. A. Gething, J. S. Weistand, and J. C. Horn, <u>SAE Technical Paper Series</u> , 890216, SAE International Congress and Exposition, Detroit, Michigan, February 27-March 3, 1989.
↓	T	"How Injector, Engine, and Fuel Variables Impact Smoke and Hydrocarbon Emissions with Port Fuel Injection" by Ather A. Quader, <u>SAE Technical Paper Series</u> , 890623, SAE International Congress and Exposition, Detroit, Michigan, February 27-March 3 1989.

EXAMINER

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7-29-96

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

EXAMINER	R	"Engine Bench Evaluation of Gasoline Composition Effect on Pollutants Conversion Rate by a Three-Way Catalyst" by Michel F. Prigent, Brigitte C. Martin and Jean-Claude Guibet, <u>SAE Technical Paper Series</u> , 900153, SAE International Congress and Exposition, Detroit, Michigan, February 26-March 2, 1990.
	S	"Effect on Gasoline Quality on Throttle Response of Engines During Warm-up" by Minoru Tomita, Masanori Okada, Haruyuki Katayama and Masahiko Nakada, <u>SAE Technical Paper Series</u> , 900163, SAE International Congress and Exposition, Detroit, Michigan, February 26-March 2, 1990.
	T	"The Effect of Gasoline Aromatics Content on Exhaust Emissions: A Cooperative Test Program" by Jeff A. Gething, S. Kent Hoekman, <u>SAE Technical Paper Series</u> , 902073, International Fuels and Lubricants Meeting and Exposition, Tulsa, Oklahoma October 22-25, 1990.

DATE CONSIDERED

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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

R	Octane Week, Special NPRA Convention Edition, Week of March 26, 1990, Volume IV, Number 44, pp. 1-14.
S	"Automotive Fuels for the 1990's - Challenges and Opportunities" by Joseph M. Colucci, Research Publication, General Motors Research Laboratories, GMR-6589, F&L-882, to be presented at DeWitt and Company - Petrochemical Review Seminar, Houston, TX, March 30, 1989.
T	"The Refiner's Key to Future Gasoline Production" by William J. Piel, National Petroleum Refiners Association, AM-88-66, 1988 Annual NPRA Meeting, San Antonio, Texas, March 20-22, 1988.

EXAMINER	DATE CONSIDERED
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SHEET 10 OF 15

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Applicant: Peter J. Jessup et al.

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

R	"Vehicle Evaporative and Exhaust Emissions as Influenced by Benzene Content of Gasoline" by Donald E. Seizinger, William F. Marshall, Frank W. Cox, and Martin W. Boyd, National Institute for Petroleum and Energy Research, NIPER--151, DE86 010603, April 16, 1986.
S	"The Effect of Aromatics Content on NOx Emissions" by Annette Reid Guerrero and James M. Lyons, Toxics and Fuels Section, Mobile Source Division, California Air Resources Board, March, 1990.
T	"The Effect of Gasoline Aromatics on Emissions of Nitrogen Oxides in Vehicle Exhaust" by J. A. Gething, Chevron Research and Technology Company, Richmond, California, April 19, 1990.

EXAMINER: \_\_\_\_\_ DATE CONSIDERED: \_\_\_\_\_

EXAMINER: Initial if citation considered, whether or not citation is in conference with MPEP 808. Draw line through citation if not in conference and not considered. Include copy of this form with next communication to applicant.



# INFORMATION DISCLOSURE STATEMENT

(Use several sheets if necessary)



SHEET 11 OF 15

DOCKET NO.  
0290112

SERIAL NO.

Peter J. Jessup et al.

INVENTOR

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## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

R	"Reformulated Gas No Help in Older Cars" by Matthew L. Wald, The New York Times, appearing in Orange County Register, December 19, 1990
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EXAMINER

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

R	"Clean Gasoline" ARCO EC-1 Gasoline
S	"Nationwide Gasoline Compositions" (MVMA and SwRI Surveys, 1988)
T	"Reformulated Gasoline" Industry Scoreboard
U	"Regular Compositions" Average Results for 9 RVP Season
V	"Premium Compositions" Average Results for 9 RVP Season

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DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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## U.S. PATENT DOCUMENTS

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## FOREIGN PATENT DOCUMENTS

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## OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

R	"The Talbert Information Package" by Talbert Fuel Systems, Inc., dated December 3, 1990.
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EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 806. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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	DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION	
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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

AR	"A Study of Factors Influencing the Evaporative Emissions From In-Use Automobiles" API Publication No. 4406, April, 1985, American Petroleum Institute.
AS	"The Effect of Fuel Volatility Variations on Evaporative and Exhaust Emissions," API Publication 4310, May, 1979, Prepared for the American Petroleum Institute by Exxon Research and Engineering Company.
AT	"Distillation Adjustment: An Innovative Step to Gasoline Reformulation" by Jeff A. Gething, SAE Technical Paper 910382, February 25-March 1, 1991.

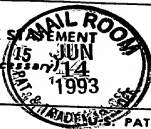
EXAMINER	DATE CONSIDERED
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

SHEET 15 OF 15

INFORMATION DISCLOSURE STATEMENT

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U.S. PATENT DOCUMENTS

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OTHER DISCLOSURES (Including Author, Title, Date, Pertinent Pages, Place of Publication, Etc.)

AN	R	"California Sets Tough Auto Standards" by Jananne Sharpless in <u>Fuel Reformulation</u> published Nov./Dec. 1991, pp. 8-10.
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EXAMINER

*Harvey*

DATE CONSIDERED

5/28/94

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